CLAIMS

What is claimed is:

1. A method of aligning a pump cartridge for a scroll compressor comprising the step of:

(1) forming a non-orbiting scroll to have a scroll wrap formed from a datum point, and further forming a precision drilled hole at a particular location relative to said datum point;

(2) forming a crankcase by machining slots to receive a portion of a non-rotation coupling, and forming a precision drilled hole at a precise location relative to said slots;

(3) positioning said crankcase in contact with said non-orbiting scroll, and aligning said precision drilled holes into non-orbiting scroll and said crankcase, and inserting a threaded member into said precision drilled holes to properly orientate said crankcase to said non-orbiting scroll.

2. A method as set forth in Claim 1, wherein said non-orbiting scroll and said crankcase are further formed to have alignment surfaces, said alignment surfaces pre-positioning said crankcase to said non-orbiting scroll prior to the insertion of said bolt.

3. A method as set forth in Claim 1, wherein said precision drilled hole on said crankcase is cut relative to the said slot for receiving said non-orbiting coupling.

4. A method as set forth in Claim 1, wherein said precision hole is drilled into said non-orbiting scroll relative to a C-datum point from which said wrap is formed.

5. A method of aligning a pump cartridge for a scroll compressor comprising the step of:

(1) forming a non-orbiting scroll to have a scroll wrap formed from a datum point, and further forming a precision drilled hole at a particular location relative to said datum point, forming alignment surfaces on said non-orbiting scroll, and said precision hole being drilled into said non-orbiting scroll relative to a C-datum point from which said wrap is also formed;

(2) forming a crankcase by machining slots to receive a portion of a non-rotation coupling, and forming a precision drilled hole at a precise location relative to said slots, said crankcase being formed to have alignment surfaces, said precision drilled hole on said crankcase being cut relative to said slots;

(3) positioning said crankcase in contact with said non-orbiting scroll, by initially aligning said alignment surfaces on said crankcase and said non-orbiting scroll, and then aligning said precision drilled holes into non-orbiting scroll and said crankcase, and inserting a threaded member into said precision drilled holes to properly orientate said crankcase to said non-orbiting scroll.